

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307

DATE: 06/29/98
TIME: 13:01:20

INPUT SET: S27038.raw

2 1/2

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Ertl, Johann
6 Habermann, Paul
7 Geisen, Karl
8 Seipke, Gerhard
9
10
11 (ii) TITLE OF INVENTION: Novel Insulin Derivatives Having A
12 Rapid Onset of Action
13
14 (iii) NUMBER OF SEQUENCES: 11
15
16 (iv) CORRESPONDENCE ADDRESS:
17 (A) ADDRESSEE: Finnegan, Henderson, Farrahbow, Garrett &
18 Dunner
19 (B) STREET: 1300 I Street, N.W.
20 (C) CITY: Washington
21 (D) STATE: D.C.
22 (E) COUNTRY: USA
23 (F) ZIP: 20005-3315
24
25 (v) COMPUTER READABLE FORM:
26 (A) MEDIUM TYPE: Floppy disk
27 (B) COMPUTER: IBM PC compatible
28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
29 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
30
31 (vi) CURRENT APPLICATION DATA:
32 (A) APPLICATION NUMBER: US
33 (B) FILING DATE:
34 (C) CLASSIFICATION
35
36 (viii) ATTORNEY/AGENT INFORMATION:
37 (A) NAME: Leslie McDonell
38 (B) REGISTRATION NUMBER: 34,872
39 (C) REFERENCE/DOCKET NUMBER: 02481.1597-00000
40
41 (ix) TELECOMMUNICATION INFORMATION:
42 (A) TELEPHONE: (202) 408-4000
43 (B) TELEFAX: (202) 408-4400
44
45
46 (2) INFORMATION FOR SEQ ID NO: 1:

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307DATE: 06/29/98
TIME: 13:01:23

INPUT SET: S27038.raw

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 21 amino acids
50 (B) TYPE: amino acid
51 (C) STRANDEDNESS: single
52 (D) TOPOLOGY: linear
53
54 (ii) MOLECULE TYPE: peptide
55
56
57
58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
59
60 Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
61 1 5 10 15
62
63 Glu Asn Tyr Cys Asn
64 20
65
66 (2) INFORMATION FOR SEQ ID NO: 2:
67
68 (i) SEQUENCE CHARACTERISTICS:
69 (A) LENGTH: 30 amino acids
70 (B) TYPE: amino acid
71 (C) STRANDEDNESS: single
72 (D) TOPOLOGY: linear
73
74 (ii) MOLECULE TYPE: peptide
75
76
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
79
80 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
81 1 5 10 15
82
83 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
84 20 25 30
85
86 (2) INFORMATION FOR SEQ ID NO: 3:
87
88 (i) SEQUENCE CHARACTERISTICS:
89 (A) LENGTH: 30 amino acids
90 (B) TYPE: amino acid
91 (C) STRANDEDNESS: single
92 (D) TOPOLOGY: linear
93
94 (ii) MOLECULE TYPE: peptide
95
96
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
98
99 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307DATE: 06/29/98
TIME: 13:01:24

INPUT SET: S27038.raw

100 1 5 10 15
101
102 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Glu Thr
103 20 25 30
104
105 (2) INFORMATION FOR SEQ ID NO: 4:
106
107 (i) SEQUENCE CHARACTERISTICS:
108 (A) LENGTH: 30 amino acids
109 (B) TYPE: amino acid
110 (C) STRANDEDNESS: single
111 (D) TOPOLOGY: linear
112
113 (ii) MOLECULE TYPE: peptide
114
115
116
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
118
119 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
120 1 5 10 15
121
122 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Ile Lys Thr
123 20 25 30
124
125 (2) INFORMATION FOR SEQ ID NO: 5:
126
127 (i) SEQUENCE CHARACTERISTICS:
128 (A) LENGTH: 30 amino acids
129 (B) TYPE: amino acid
130 (C) STRANDEDNESS: single
131 (D) TOPOLOGY: linear
132
133 (ii) MOLECULE TYPE: peptide
134
135
136
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
138
139 Phe Val Lys Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
140 1 5 10 15
141
142 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Ile Pro Lys Thr
143 20 25 30
144
145 (2) INFORMATION FOR SEQ ID NO: 6:
146
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 97 amino acids
149 (B) TYPE: amino acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307DATE: 06/29/98
TIME: 13:01:26

INPUT SET: S27038.raw

153 (ii) MOLECULE TYPE: peptide

154

155

156

157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

158

159 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
160 1 5 10 15

161

162 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
163 20 25 30

164

165 Arg Gly Phe Phe Tyr Thr Pro Glu Thr Arg Arg Glu Ala Glu Asp Pro
166 35 40 45

167

168 Gln Val Gly Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu
169 50 55 60

170

171 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
172 65 70 75 80

173

174 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
175 85 90 95

176

177 Asn

178

179

180 (2) INFORMATION FOR SEQ ID NO: 7:

181

182 (i) SEQUENCE CHARACTERISTICS:

183 (A) LENGTH: 97 amino acids

184 (B) TYPE: amino acid

185 (C) STRANDEDNESS: single

186 (D) TOPOLOGY: linear

187

188 (ii) MOLECULE TYPE: peptide

189

190

191

192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

193

194 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
195 1 5 10 15

196

197 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
198 20 25 30

199

200 Arg Gly Phe Phe Tyr Thr Ile Lys Thr Arg Arg Glu Ala Glu Asp Pro
201 35 40 45

202

203 Gln Val Gly Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu
204 50 55 60

205

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/099,307DATE: 06/29/98
TIME: 13:01:28

INPUT SET: S27038.raw

206 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
207 65 70 75 80
208
209 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
210 85 90 95
211

212 Asn
213
214

215 (2) INFORMATION FOR SEQ ID NO: 8:
216

217 (i) SEQUENCE CHARACTERISTICS:

218 (A) LENGTH: 97 amino acids
219 (B) TYPE: amino acid
220 (C) STRANDEDNESS: single
221 (D) TOPOLOGY: linear
222

223 (ii) MOLECULE TYPE: peptide
224
225
226

227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
228

229 Met Ala Thr Thr Ser Thr Gly Asn Ser Ala Arg Phe Val Lys Gln His
230 1 5 10 15
231

232 Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu
233 20 25 30
234

235 Arg Gly Phe Phe Tyr Ile Pro Lys Thr Arg Arg Glu Ala Glu Asp Pro
236 35 40 45
237

238 Gln Val Gly Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu
239 50 55 60
240

241 Gln Pro Leu Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu
242 65 70 75 80
243

244 Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys
245 85 90 95
246

247 Asn
248

249 (2) INFORMATION FOR SEQ ID NO: 9:
250

251 (i) SEQUENCE CHARACTERISTICS:

252 (A) LENGTH: 21 amino acids
253 (B) TYPE: amino acid
254 (C) STRANDEDNESS: single
255 (D) TOPOLOGY: linear
256

257 (ii) MOLECULE TYPE: peptide
258

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/099,307

DATE: 06/29/98
TIME: 13:01:30

INPUT SET: S27038.raw

Line	Error	Original Text
32	Wrong application Serial Number	(A) APPLICATION NUMBER: US